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## **VQAR-II**

## **UNIT-III**

## **MACHINE INPUT OUTPUT**

Directions(1-5): A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

Input: variety 35 spices 21 for 79 good 54 taste 46

Step I: for va	riety 35 spices	21 79 god	od 54 taste 46			
-	for variety 35	_				
	good for varie					
	es taste good fo	•				
	ty spices taste	•				
Step V. varie	= •	5000 101	10 21 77 33 3	•		
-	ous steps and f	inal outnu	t for the input	given helow		
	64 relations 25	-	•	_		
1. Which of t	he following re	epresents 1	the fifth eleme	ent from left e	nd in step IV and	d
fourth elemei	nt from right er	nd in step	II respectively	y?	-	
A. relation -3	B. 25	5 - 53	C. relation - b	ase D. re	lation - 53 E. No	one
of these						
	e difference of	the odd n	umbers that co	ome between	strong' and 'base	e' in
step I?						
=	odd number co			B. 14	C. 28	
D. No odd nu	ımber comes ir	n between	E. Cai	n't be determin	ed	
2 W/4h nama		I Form of	41. a fa 11 a	. C	:	لمسم ،
_	_				in a certain way	ana
U	oup. Which of t		0	U	_ ·	
A. 38	B. base	C. depo	enus	D. 53	E. 45	
4 Which of t	he following e	lements is	third to the le	eft of fourth el	ement from righ	ıt end
in step III?	ne ronowing e		time to the K	or fourth ci	ement nom righ	it Clia
A. 53	B. relation		C. base	D. depends	E. None of th	nese
5. What is the	e sum of the nu	mbers tha	nt are towards	the right of 'b	ase' in step I?	
A. 109	B. 102	C. 91	D. The	ere is only one	number	E.
None of these	e			•		
Directions(6-	10): Read the	given info	rmation caref	ully and answ	er the questions	
given beside:						

The first step is the resultant of the product and sum of the digits in input as per the lines indicated. Further steps are obtained by applying certain logic. Numbers of step



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II have been obtained by using atleast 1 digit of each number in step 1. Each step is a resultant of previous step.

6. Which one of A. 151250		g is half of the C. 160080		in final step? E. None of these
7. Which one o	of the following	g is a number o	btained in step	П?
A. 1550	B. 1650	C. 1200	D. 1100	E. None of these
8. Find the diff A. 660	ference of the r B. 550	numbers obtain C. 630	ed in step II? D. 420	E. None of these
9. Which one of A. 32	of the following B. 44	g is one of the 1 C. 56	numbers obtain D. 50	ned in step I ?  E. None of these
10. Which one A. Step V		-	-	E. None of these
questions given Input: 781 vssk Step 1: 351 78	n beside. kt 651 ltsk 486 1 vsskt 651 ltsl 1 781 vsskt ltsl 1 351 781 vssk 1 651 351 vssk 1 581 651 351 nal step ern followed in 651 dog 481 get	deef 351 jklm k 486 jklm 581 k 486 581 tuvw et 486 tuvw dee et 486 deef jklm deef jklm ltsk in the above step old 231 modi 6	581 tuvw tuvw deef deef jklm ef jklm ltsk ltsk tuvw tuvw vsskt ps, find out for 31 ruchi output?	ly and answer the given input:
	B. Step 4		D. There is no	such step
12. If in step 4 same pattern '6			55' is related to	o 'cat', then following the
	B. 231	C. 555	D. cat	E. gold
4th step?	t 651 B. Sec	ond to right of	gold C. Sec	position of 'ruchi' in the ond to right of 631
14. In step 5 w word/number v		-		he right of the
A. modi	B. gold	C. cat	D. 555	E. 231



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Directions(15-19): A word and number arrangement machine when given an input line of words and numbers rearranges them following a different rule in each step.

The following is an illustration of input and rearrangement.

Input: always begin from bottom mount high Step I: aabdho eimty inou ggnooy gmnou isst

Step II: 3 44 31 23 2 49

Step III: 48 18 72

Step IV: 39 Step V: 144

Step V is the last step of the arrangement.

Following the same pattern solve the given input.

Input: fear creates demons only hope defeat

15. What will be the value obtained in final step of the arrangement?

A. 36

C. 81

D. 49

16. What is the product of the numbers obtained in step IV?

A. 36

B. 16

C. 24

D. 18

17. Which of the following numbers will represent 'Fear' in step II?

A. 36

B. 38

C. 25

D. 20

E. 18

18. Which of the following words will be obtained in step I?

A. Aeit

B. aeefhix

C. ehmmow

D. bmop

E. aeeguw

19. What is the sum of the numbers obtained in step III?

A. 108

B. 282

C. 96

D. 42

E. 216

Directions(20-24): A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in every step. The following is an illustration of input and rearrangement.

Input: 79 create history 88 imagined 94 every 63 leader 96 Step I: 88 79 create history imagined 94 63 leader 96 every Step II: 88 79 96 history imagined 94 63 leader every create Step III: 88 79 96 history imagined 94 63 every create leader Step IV: 88 79 96 94 imagined 63 every create leader history Step V: 88 79 96 94 63 every create leader history imagined

Step V is the last step of the arrangement.

Following the same pattern solve the given input.

Input: never 42 leaved 39 important object 53 46 anyplace 74

20. How many steps will be required to complete the given input?

A. Three

B. Seven

C. Six

D. Five

E. Four

21. Which of the following steps will be last but one of the given input?

A. 39 74 46 53 important 42 never leaved object anyplace

B. 39 74 46 53 42 important never leaved object anyplace



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C. 39 74 46 42 53 never leaved object anyplace important

D. 39 74 46 53 42 important never object leaved anyplace

E. None of these

22. Which of the following will be on the immediate right of 'Important' in step III?

A. Object

B. Never

C. 42

D. Anyplace

E. 53

23. How many element(s) will be there between '74' and 'leaved' in Step IV?

A. Six

B. Four

C. Four

D. Five

E. Three

24. What is the position of 'Object' in step V?

A. Third from right end

B. Second from left end

C. Seventh from left end

D. Fourth from right end

E. None of these

Directions(25-29): A word and number arrangement machine, when given an input line of words and numbers, rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

Input: faster 24 and 37 rapid 61 progressive 18 requirement 85 building 93

Step I: 24 faster and 37 rapid 61 progressive 18 requirement 85 building 93

Step II: 24 progressive faster and 37 rapid 61 18 requirement 85 building 93

Step III: 24 progressive 61 faster and 37 rapid 18 requirement 85 building 93

Step IV: 24 progressive 61 requirement faster and 37 rapid 18 85 building 93

Step V: 24 progressive 61 requirement 18 faster and 37 rapid 85 building 93

Step VI: 24 progressive 61 requirement 18 building faster and 37 rapid 85 93

Step VII: 24 progressive 61 requirement 18 building 37 faster and rapid 85 93

Step VIII: 24 progressive 61 requirement 18 building 37 faster 93 and rapid 85

Step IX: 24 progressive 61 requirement 18 building 37 faster 93 rapid and 85

Step X: 24 progressive 61 requirement 18 building 37 faster 93 rapid 85 and Step X is the final output.

Find the different steps of output using the above mentioned logic for the following input.

Input: technology 47 transfer 26 rate 72 achieving 51 extra 91 version 32

25. How many steps are needed to reach the final output?

A. Ten B. Nine C. Eight

D. Eleven

E. None of these

26. Which of the following is fourth to the left of '47' in step VI?

A. version

C. transfer

D. 26

27. In which of the following steps "version 91 47 rate" is seen in the same sequence?

A. Step IX

B. Step VIII C. Both A or B

D. Step VII

E. None of these

28. Which of the following comes exactly between 51 and 91 in step III?

A. Rate

B. 26

C. extra

D. 72

E. None of these

29. Which of the following is seventh from the right end in final output?

A. transfer

B. achieving

C. extra

D. 72

E. None of these





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Directions(30-34): A word and number arrangement machine, when given an input line of words and numbers, rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

Input: name 72 nest 24 near 35 nostalgic 43 narrow 67 Step1: 72 nest near 35 nostalgic 43 narrow 67 name 242 Step2: 72 nest near nostalgic 43 67 name 242 narrow 335 Step3: 72 nest nostalgic 67 name 242 narrow 335 near 343 Step4: 72 nostalgic name 242 narrow 335 near 343 nest 367

Step5: name 242 narrow 335 near 343 nest 367 nostalgic 722

Step 5 is the final output.

Find the different steps of output using the above mentioned logic for the following input.

Input: team 55 taboo 48 tackle 83 tissue 69 test 11.

30. In which of the following steps, 'taboo' is placed at third from the left end?

A. Step 1 B. Input C. Step 4 D. Either A or B E. None of these

31. Which of the following is the final output?

A. taboo 311 tackle 482 test 355 team 369 tissue 383

B. taboo 311 tackle 482 team 355 test 369 tissue 383

C. tissue 383 taboo 311 tackle 482 team 355 test 369

D. tackle 482 team 355 test 369 tissue 383 taboo 311

E. None of these

32. What is the difference between the highest and the lowest numbers of step 3?

A. 268 B. 316 C. 393 D. 413 E. None of these

33. Which of the following elements is second to the left of fourth element from the right end in step 2?

A. 83 B. tissue C. 69 D. test E. None of these

34. In which of the following steps "83 tissue taboo" is seen in the same sequence?

A. Step 4 B. Step 5 C. Step 3 D. Both Step 3 and step 4

E. None of these

Directions(35-39): An alphanumeric machine accepts letters as input and delivers output in form of numbers through different steps. Each step is obtained by applying an operation different from the previous step. Each step gives output taking input from the previous step. Below mentioned is an illustration of the same.

Input: spread joy laughter by sharing smile with masses

Step1: 9 2 11 5 6 4 7 9 Step2: 99 10 42 36

Step3: 57 26 Step4: 5

Step4 is the final output.



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On the basis of above illustration find the output and different steps for the following input.

input. Input: being	g good to every	one sometimes	invite sad trou	uble			
the final ou	itput?		-	at would be its consequence on			
	•		•	vill be decreased by 2			
	-		Final output w	vill be increased by 2			
E. Finai ou	tput will be inc	reased by 1					
36. What is	s the square of t	he sum of the r	numbers of step	3?			
A. 729	B. 676	C. 784	D. 529	E. None of these			
37. If in the step 2 will	-	nd' is replaced b	oy "so" then wh	nich of the following values of			
A. 20	B. 16			None of the values will change			
				d thus form a group. Which of			
	ng does not bel	-	_				
A. 22	B. 1	C. 55	D. 3	E. 10			
			m of all the ev	en numbers of step 2 and the			
	the odd number	•	D 46	F 20			
A. 77	B. 85	C. 67	D. 46	E. 38			
			-	chine, when given an input			
	ing is an illustr			particular rule in each step. ent.			
Input: Fable	e 76 Quibble 24	4 Terrible 54 A	ble 82 Gamble	: 65			
•	Fable 76 Quibbl						
_	Step2: Fable 82 76 Quibble 24 Terrible 54 Gamble Able 65 Step3: 76 Fable 82 Quibble 24 Terrible 54 Able 65 Gamble						
Step4: Quibble 76 Fable 82 Terrible 54 Able 65 Gamble 24							
Step5: 54 (	Quibble 76 Fabl	e 82 Able 65 C	amble 24 Terr	rible			
Step 5 is th	e final output.						
Find the di	fferent steps of	output using th	e above menti	oned logic for the following			
input.							
Input: Scie	ntific 29 Majae	stic 34 Fantasti	c 58 Hectic 77	Genetic 84			
40. What is	s the position of	5'58' in step 1?					
	om the left end	-	om the right en	d C. Seventh from the left			
	Fifth from the r						

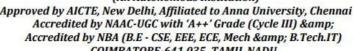
41. In the final output, how many elements are there between the greatest and the smallest numbers of the given arrangement?

A. Four B. Two C. Three D. Five E. None of the above

42. What is the sum of the numbers that fall between 'Scientific' and 'Majestic' in step 4?



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A. 118	B. 137	C. 119	D. 84	E. None of the above

43. Which of the following comes exactly between 'Scientific' and 'Hectic' in step 2?

B. Majestic, 34 and Fantastic A. 58 C. 34 and 58

D. Fantastic E. None of these

44. Which of the following elements is second to the left of sixth element from right end in step 3?

A. Genetic B. 29 C. Scientific D. 77 E. None of these

Directions(45-49): A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in every step. The following is an illustration of input and rearrangement.

Input: 88 25 68 56 58 83 94 Step I: 88 68 25 56 58 83 94 Step II: 88 68 94 25 56 58 83 Step III: 88 68 94 58 25 56 83 Step IV: 88 68 94 58 83 25 56 Step V: 88 68 94 58 83 56 25

Step V is the last step of the arrangement.

Following the same pattern solve the questions given below.

45. Which of the following will be step III of the input '87 37 54 98 46 29'?

A. 98 87 29 37 46 54 B. 98 87 29 46 37 54

D. 98 87 29 46 54 37 E. None of these

46. How many steps will be required to complete the arrangement '38 71 26 93 37 44 54'?

C. IV D. V A. II B. III E. None of these

47. Which of the following would be the input step for the arrangement whose step IV is '75 49 63 45 5316 26 41'?

A. 45 75 49 53 16 26 63 41

B. 45 49 53 16 63 75 26 41

C. 75 63 49 53 45 16 41 26

D. 16 63 45 53 49 75 26 41

E. Can't be determined

48. Which of the following will be step IV of the input '90 29 72 84 55 76'?

A. 84 76 55 29 90 72

B. 76 84 29 55 90 72 C. 84 76 55 29 72 90

C. 87 98 29 37 46 54

D. 76 84 29 72 90 55 E. None of these

49. Which of the following will be '95 77 49 56 82 37' of the input '82 49 56 77 95 37'?

C. V A. III B. IV D. VI E. None of these

#### **ANSWERS:**

Common Explanation for (1-5):



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Change in word: The words are rearranged as per ascending order of number of letters and placed at extreme left end. Change in number: The numbers are rearranged as per ascending order of sum of their digits until a single digit is obtained and shifted to extreme right end.

Note- Change in word and number takes place simultaneously at each step. Only one word and one number is changed in a step.

#### Reference:

Input: variety 35 spices 21 for 79 good 54 taste 46 Step I: for variety 35 spices 21 79 good 54 taste 46

#### Inference:

Input: strong 64 relation 25 depends 38 on 53 base 45 Step I: on strong relation 25 depends 38 53 base 45 64

#### Reference:

Step I: for variety 35 spices 21 79 good 54 taste 46 Step II: good for variety 35 spices 79 54 taste 46 21

#### Inference:

Step I: on strong relation 25 depends 38 53 base 45 64 Step II: base on strong relation 25 depends 53 45 64 38

#### Reference:

Step II: good for variety 35 spices 79 54 taste 46 21 Step III: taste good for variety 35 spices 54 46 21 79

#### Inference:

Step II: base on strong relation 25 depends 53 45 64 38 Step III: strong base on relation depends 53 45 64 38 25

### Common Explanation for (6-10):

Answer:

6. 151250 is half of the value obtained in final step. Option A, is hence the correct answer.

7. 1550 is one of the numbers obtained in step II. Option A, is hence the correct answer.

8. As, 1550 - 1000 = 550.

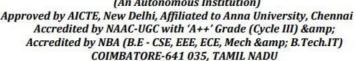
So, the Difference between the numbers obtained in step II is 550. Option B, is hence the correct answer.

9. 50 is one of the numbers obtained in step I. Option D, is hence the correct answer.

10. Step IV is the required final step.



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Option C, is hence the correct answer.

Common explanation for (11-14):

References:

555 cat 651 dog 481 gold 231 modi 631 ruchi

Inferences:

Both word & number are rearranged simultaneously.

Number logic: the sum of digits of number is taken. Number whose sum of digits is lowest is taken and placed at first.

The words are arranged in descending order from right to left from the right end. In the first step, the words are arranged as ascending order according to the first letter of the word and so on.

Input: 555 cat 651 dog 481 gold 231 modi 631 ruchi

Step 1: 231 555 651 dog 481 gold modi 631 ruchi cat

Step 2: 631 231 555 651 481 gold modi ruchi cat dog

Step 3: 651 631 231 555 481 modi ruchi cat dog gold

Step 4: 481 651 631 231 555 ruchi cat dog gold modi

Step 5: 555 481 651 631 231 cat dog gold modi ruchi

Step 5 is the final step

#### Answer:

11. There is no such step. Hence, option D is correct.

12. Step 4: 481 651 631 231 555 ruchi cat dog gold modi Hence, option C is correct.

13. Step 4: 481 651 631 231 555 ruchi cat dog gold modi Hence, option D is correct.

14. Step 5: 555 481 651 631 231 cat dog gold modi ruchi Hence, option B is correct.

Common Explanation for (15-19):

Reference:

Input: always begin from bottom mount high Step I: aabdho eimty inou ggnooy gmnou isst

Inference:

In the Step I, firstly the consonants within each word in Input step are reversed in cyclic alphabetical order after that the words thus formed are arranged according to dictionary from left to right.

#### For example:

The word 'Fear' after reversing the consonants in cyclic alphabetical order and arranging the letters in alphabetical order becomes 'aeiu'.

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Using the same rule Step I of the given Input can be written as: Input: fear creates demons only hope defeat

Step I: aeiu aeeghix ehmnow bmoo eoks aeeguw

Reference:

Step II: 3 44 31 23 2 49

Inference:

In the Step II, the difference of numbers obtained from the sum of the numeric position in alphabetic

series of each vowel and the sum of the numeric position in alphabetic series of each vowel of the same word in Step I is taken.

#### For example:

The vowels in the word 'aeiu' are 'a', 'e', 'i' and 'u' and numeric position of 'a', 'e', 'i' and 'u' in alphabetic is '1', '5', '9' and '21' respectively so the sum of the numeric positions of vowels is 1 + 5 + 9 + 21 = 36. As, there are no consonants in the word 'aeiu' so we will consider 36 as the final number. And, the vowels in the word 'aeeghix' are 'a', 'e', 'e' and 'i' and numeric position of 'a', 'e', 'e' and 'i' in alphabetic is '1', '5', '5' and '9' respectively, so the sum of the numeric positions of vowels is 1 + 5 + 5 + 9 = 20 and the consonants in the word 'aeeghix' are 'g', 'h' and 'x' and numeric position of 'g', 'h' and 'x' in alphabetic is '7', '8', and '24' respectively, so the sum of the numeric position of consonants is 7 + 8 + 24 = 3. And, the difference of 39 and 20 is 19 so the number is 19.

Using the same rule Step II of the given Input can be written as:

Step II: 36 19 38 15 10 2

Reference:

Step III: 48 18 72

Inference:

In the Step III, the digits of first and second number are multiplied within the number and the numbers

thus obtained are multiplied form a single number the same pattern is followed with third and fourth

number, and fifth and sixth number.

### For example:

First and second numbers from left end is Step II are '36' and '19' respectively and after multiplying the digits of '36' and '19' with the numbers we get '18' and '9', and after multiplying '18' and '9' we get 162. So the number is 162.

Using the same rule Step III of the given Input can be written as:

Step III: 162 120 0

Reference: Step IV: 3 9 Inference:



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The first and second numbers from left end in Step III are subtracted then the digits of the number thus formed are added within the number to form the first number from left end in step IV. and the same pattern is repeated with second and third number from left end in step III to form the second number from left end in step IV.

#### For example:

First and second numbers from left end in Step III are '162' and '120' respectively. The difference of '162' and '120' is 42 and the sum of the digits of '42' is '4 + 2 = 6'. So the number is 6.

Using the same rule Step IV of the given Input can be written as:

Step IV: 63 Reference: Step V: 144

Step V is the last step of the arrangement.

Inference:

In the Step V, the sum of the numbers in step IV is taken and the number thus formed is squared.

### For example:

After adding the numbers 6 + 3 = 9 and the square of 9 is 81. So the number is 81. Using the same rule Step V of the given Input can be written as:

Step V: 81

As it is given that Step V is the last step of the arrangement so the given input is completed.

Final Solution:

Input: fear creates demons only hope defeat Step I: aeiu aeeghix ehmnow bmoo eoks aeeguw

Step II: 36 19 38 15 10 2 Step III: 162 120 0

Step IV: 6 3 Step V: 81

Step V is the last step of the arrangement.

#### Answer:

15. Following the final solution we can say that 81 will be obtained in final step of the arrangement.

Hence, the correct answer is option C.

16. Following the final solution we can say that the numbers obtained in step IV are '6' and '3'.

Required Value =  $6 \times 3 = 18$ 

Hence, the correct answer is option D.



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- 17. Following the final solution we can say that 36 will represent 'Fear' in step II. Hence, the correct answer is option A.
- 18. Following the final solution we can say that 'aeeguw' will be obtained in step I of the given arrangement.

Hence, the correct answer is option E.

19. Following the final solution we can say that the numbers obtained in step III are '162', '120' and '0'.

Required Value = 162 + 120 + 0 = 282

Hence, the correct answer is option B.

### **Common Explanation for (20-24):**

#### Reference:

Input: 79 create history 88 imagined 94 every 63 leader 96 Step I: 88 79 create history imagined 94 63 leader 96 every Step II: 88 79 96 history imagined 94 63 leader every create Step III: 88 79 96 history imagined 94 63 every create leader Step IV: 88 79 96 94 imagined 63 every create leader history Step V: 88 79 96 94 63 every create leader history imagined Step V is the last step of the arrangement.

#### Inference:

Here in the above input the numbers and the words are arranged in the different manner.

### Arrangement of numbers:

Here the numbers are arranged as the number whose sum of the digits is highest is arranged on the extreme left in the Step I after that the number whose sum of the digits is second highest is arranged the right of the number arranged in step I.

#### Number Digits Sum

88 16

79 16

96 15

94 13

63 9

As the digits sum of both '88' and '79' is same, then the highest number i.e. 88 will be arranged first.

Number Arrangement

Step

88 Step I

79 Step II

96 Step III

94 Step IV

63 Step V

As the arrangement of the numbers follows the left to right pattern therefore it might be possible that some numbers are arranged automatically.

Arrangement of words: